

Nauka i technika

I don't think there's intelligent life on other planets. Why should other planets be any different from this one?

Bob Monkhouse (British comedian, 1928–2003)

SPRAWDŹ, ILE JUŻ UMIESZ

1 Przeczytaj nagłówki poniżej. W parach wymieńcie jak najwięcej wyrazów z każdej kategorii.

- Scientists
mathematician
- Space and space exploration
universe
- Electronic devices and equipment
smartphone
- Problems with electronic devices
virus

BANK SŁÓW, strony 194–195

NAUKOWCY I DZIEDZINY NAUKI

2 Uzupełnij luki wyrazami z ramki. Które z wymienionych dziedzin nauki są przedstawione na ilustracjach na górze strony?

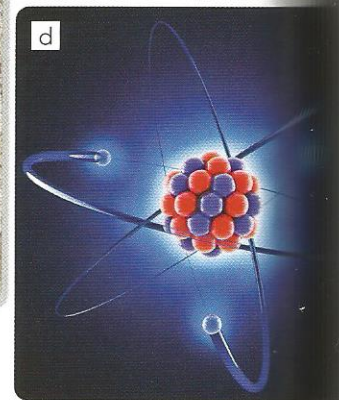
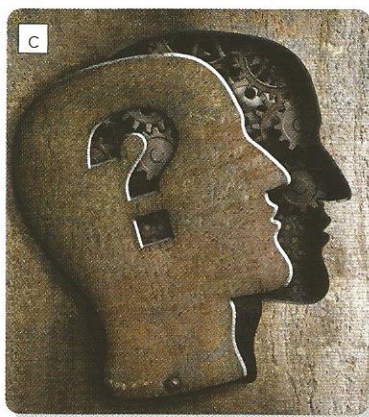
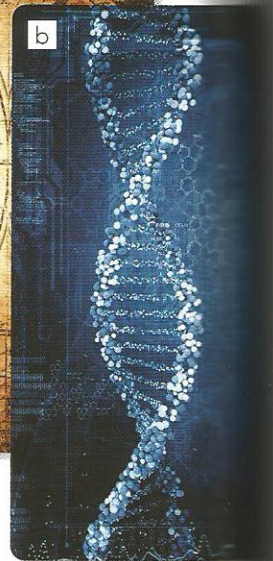
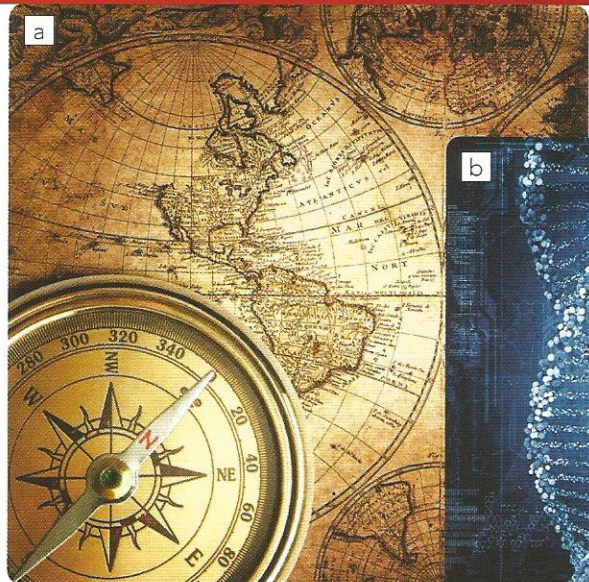
genetics linguistics economics geology
archeology astronomy anthropology psychology

Which area of science studies ...

- 1 ... the way in which money and goods are produced and used? _____
- 2 ... languages? _____
- 3 ... ancient societies by looking at objects and buildings they have left? _____
- 4 ... stars and planets? _____
- 5 ... how the qualities of living organisms are passed on through genes? _____
- 6 ... people, their societies, and cultures? _____
- 7 ... the rocks and soil that make up the Earth? _____
- 8 ... the mind and how it influences people's behaviour? _____

3 W parach odpowiedzcie na pytanie.

Which of the areas of science mentioned in exercise 2 would you like to study? Why?



4 Uzupełnij zdania nazwami osób specjalizujących się w podanych dziedzinach, utworzonymi od wyrazów w nawiasach.

- 1 *Elements*, the geometry book written by the ancient Greek _____ (MATHEMATICS) Euclid, was still used in schools and universities in the 19th century.
- 2 The eighteenth-century _____ (ASTRONOMY) William Herschel discovered the planet Uranus using a telescope he had made himself.
- 3 In 1939 the _____ (ARCHAEOLOGY) Dorothy Garrod became the first woman professor at Oxbridge.
- 4 The American _____ (CHEMISTRY) Linus Pauling won two Nobel Prizes: one in Chemistry in 1954 and the Peace Prize in 1962.
- 5 The ancient Greek _____ (GEOGRAPHY) Eratosthenes was the first to calculate the size of the Earth.
- 6 The American _____ (PSYCHOLOGY) Carl Rogers created the 'humanistic approach' in psychology.
- 7 The _____ (PHYSICS) J. Robert Oppenheimer was the head of the Manhattan Project, which produced the first atomic bomb in 1945.
- 8 The _____ (BIOLOGY) Stephen Jay Gould is famous for his many books and essays for non-specialist readers.

BADANIA I ODKRYCIA NAUKOWE

5 **CD-3.09 MP3-198** Posłuchaj czterech krótkich nagrań. Do każdego z nich dopasuj jedno ze zdań a-d.

The speaker is

- a planning an **experiment**.
- b formulating a **hypothesis** based on some **evidence**.
- c showing a new assistant around a **lab**.
- d presenting his/her team's **research findings**.

6 **Wybierz właściwy czasownik.**

- 1 The Chinese *invented / discovered* print a few centuries before Gutenberg.
- 2 The British archaeologist Howard Carter *invented / discovered* the tomb of the pharaoh Tutankhamun in 1922.
- 3 The theory of evolution was at first *rejected / accepted* by people who were shocked by the idea that humans may be descended "from monkeys".
- 4 Galileo Galilei was the first to *prove / observe* the rings of Saturn, but he didn't realise what they were.
- 5 Dian Fossey *studied / analysed* gorillas in their natural environment in Africa for eighteen years.
- 6 Galileo's observations of Venus and the moons of Jupiter *confirmed / invented* the heliocentric theory.
- 7 Scientists are continually *investigating / inventing* possible links between various substances and cancer.

7 **Wpisz w luki czasowniki oznaczające działania arytmetyczne.**

[subtract multiply divide add]

- 1 $2+2$ _____ two and two
- 2 $4-2$ _____ two from four
- 3 2×2 _____ two by two
- 4 $4:2$ _____ four by two

8 **Wybierz poprawną opcję.**

AN ACCIDENTAL DISCOVERY

In 1928 at St Mary's Hospital in London Professor Alexander Fleming was carrying ¹ research into bacteria. He was not a very tidy man and when he went on holiday, he left some dishes with bacteria cultures in the lab. After he returned, he noticed that mould had grown in one of the dishes, and in the area around it there were no bacteria. He ² to the conclusion that the mould had killed the bacteria. More research ³ his hypothesis. In this way he ⁴ a discovery that has helped save many lives: the first antibiotic, penicillin. He was ⁵ the Nobel prize ⁶ Physiology or Medicine in 1945.

- 1 A out B on C away
- 2 A went B reached C came
- 3 A rejected B confirmed C accepted
- 4 A did B made C had
- 5 A won B received C awarded
- 6 A in B on C of

NAUKI PRZYRODNICZE

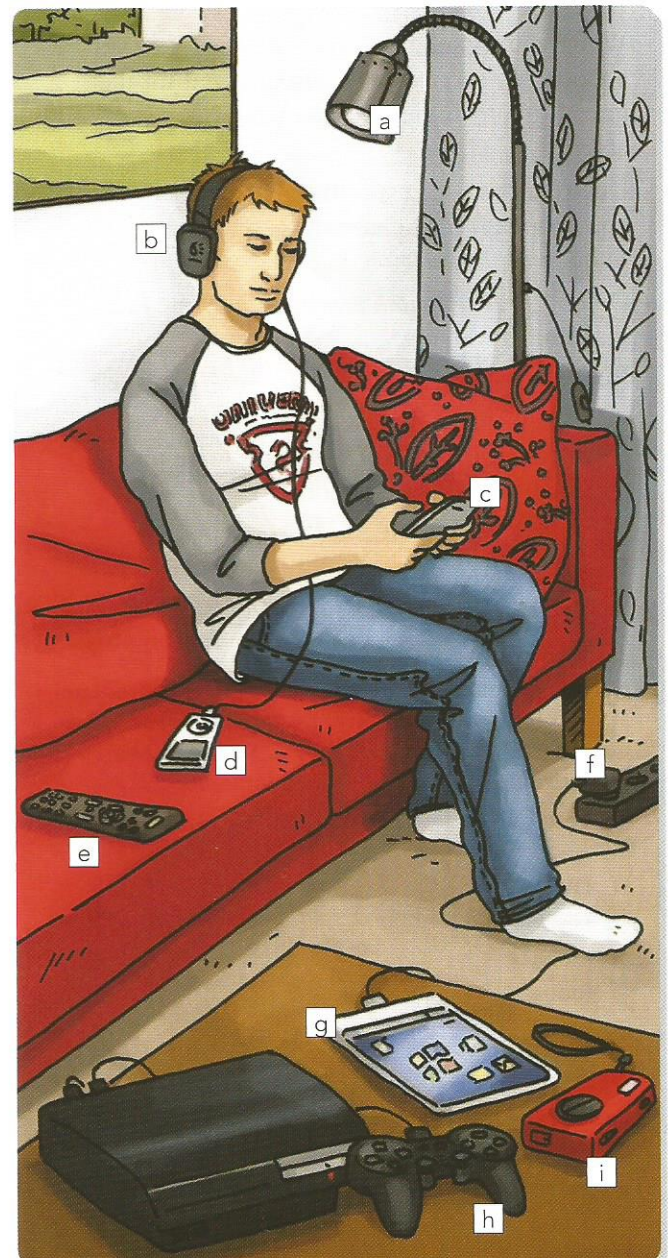
9 **Wybierz właściwy czasownik.**

- 1 Water *evaporates / freezes* at 0°C.
- 2 Forest fires can be very difficult to *extinguish / exhale*.
- 3 Sugar and salt *oxidise / dissolve* in water, but metals don't.
- 4 Salt *consists / contains* of sodium and chlorine.
- 5 On a hot day, rain water can *evaporate / freeze* very quickly.

TECHNIKA I OBSŁUGA URZĄDZEN

10 **Dopasuj wyrazy do przedmiotów przedstawionych na ilustracji.**

- 1 smartphone
- 2 tablet
- 3 charger
- 4 camera
- 5 headphones
- 6 light bulb
- 7 remote control
- 8 gamepad
- 9 MP3 player



11 Uzupełnij pytania wyrazami z ramki. W parach zadajcie sobie te pytania.

[text operator networking mobile connection]

- 1 What model of _____ phone would you like to have? Why?
- 2 Which mobile phone network _____ do you use? Are you happy with the service?
- 3 On average, how many _____ messages do you send a day? Who do you text most often?
- 4 Have you got an Internet _____ that you're satisfied with? Why?/Why not?
- 5 Which social _____ sites do you use?

12 Wybierz poprawną opcję.

PLEASE

BE KIND TO THE PHOTOCOPIER!

- When you switch the copier ¹on / off, it needs about thirty seconds to warm up. Wait for the green light to come ²out / on before you start copying.
- Do not try to use any kind of paper other than copy paper. It may cause the copier to ³break / fall down.
- Do not ⁴press / switch any buttons while the machine is copying.
- Remember to switch the copier ⁵off / on when leaving the office in the evening.
- If the copier is ⁶in / out of order, please phone technical support (extension 12).

TECHNOLOGIE INFORMACYJNO-KOMUNIKACYJNE

13 [CD-3.10 MP3-199] Posłuchaj sześciu osób, które skarżą się na kłopoty z częściami lub urządzeniami peryferyjnymi komputera. Dopasuj nagrania do urządzeń, o których jest mowa. Jedna nazwa urządzenia została podana dodatkowo.

- a battery
- b speakers
- c DVD drive
- d keyboard
- e monitor
- f mouse
- g printer

14 [CD-3.11 MP3-200] Posłuchaj nagrania i sprawdź swoje odpowiedzi.

15 W parach odpowiedzcie na pytanie.

What do you usually do when an electronic device stops working?

16 Uzupełnij zdania właściwymi formami czasowników z ramki.

[attach create delete download upload open print save]

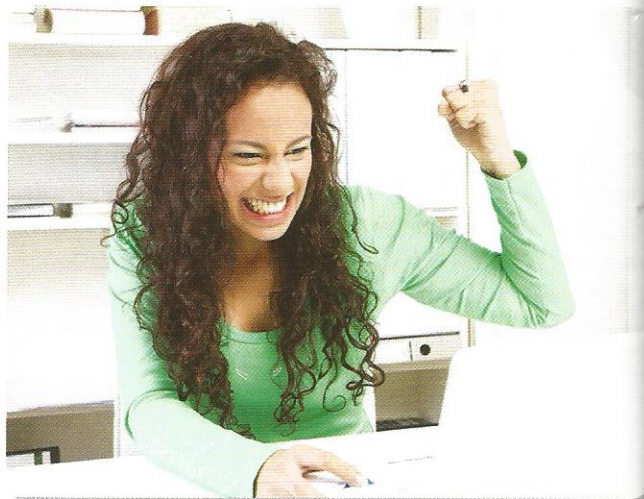
- 1 I'm _____ some music to make a compilation for the party.
- 2 Jane spends hours _____ her latest pictures onto Facebook.
- 3 A: 'Oh, no! I've _____ my homework by accident! It's gone!'
B: 'What, didn't you _____ it at all? That was so careless!'
- 4 I'm _____ some photos from the party to this email – hope you like them.
- 5 Don't _____ that attachment. You don't know where it came from.
- 6 At the beginning of every school year I _____ a separate folder for each subject.
- 7 OK. My essay's ready; I'm going to _____ it now. Oh no, there's no paper left!

AWARIE

17 [CD-3.12 MP3-201] Uzupełnij wypowiedź ucznia. Pierwsze litery brakujących wyrazów zostały podane. Posłuchaj nagrania i sprawdź swoje odpowiedzi.

Examiner: Tell me about a problem you had with a computer.

Student: Oh, I had a real disaster earlier this year. It was my own fault really. I'd bought new ¹a____-v____ s____ but couldn't find the time to download and ²i____ it. And I knew very well I should be backing up my work, putting it on a ³m____ stick. But I always thought I'd do it later. And then one day I opened an ⁴a_____ in an email which I thought was from a friend of mine ... Well, it wasn't. It contained a nasty ⁵v____. It made my computer ⁶c____ at once. I tried restarting it, but it didn't help. The hard ⁷d____ was ruined and I lost a lot of ⁸d____, including all my homework for about two weeks.



18 W parach odpowiedzcie na pytanie egzaminującego z ćwiczenia 17.